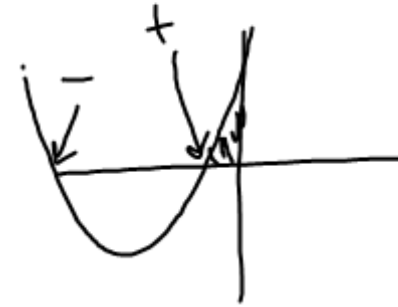
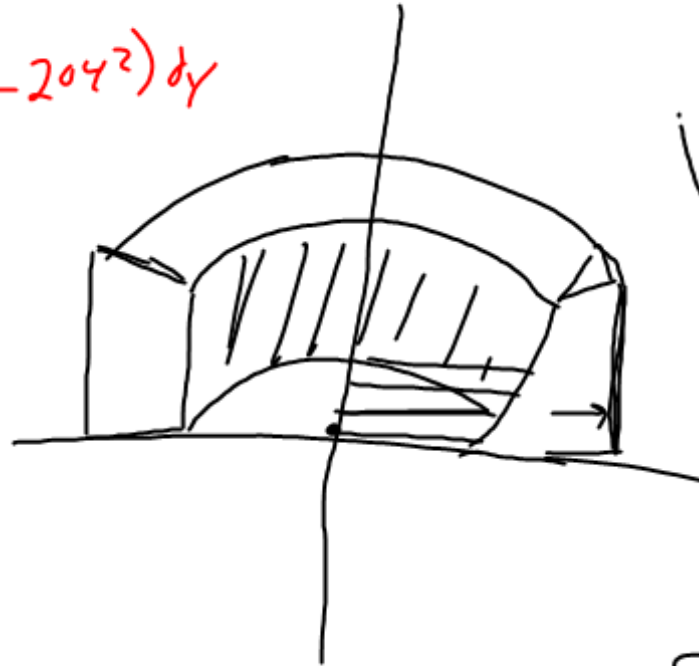


$$\pi \int_0^{384} (220^2 - 204^2) dy$$



$$r = x = \frac{-7.1 \pm \sqrt{7.1^2 - 4(0.03)(350 - y)}}{2(0.03)} + 220$$

$$R = 204 \int_0^{244} \pi (R^2 - r^2) = 6,826,140.568$$

$$0 = 0.03x^2 + 7.1x + 250$$

$$D = 0.03x^2 + 7.1x + (350 - y)$$

# Dama Problem

- Estimation
  - how, work
  - what did you get
- Washer method
  - what you did
  - what you got
- Shell
  - what you did
  - what you got
- Reflection